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PANASONIC CT-9R10T OPERATING INSTRUCTIONS MANUAL

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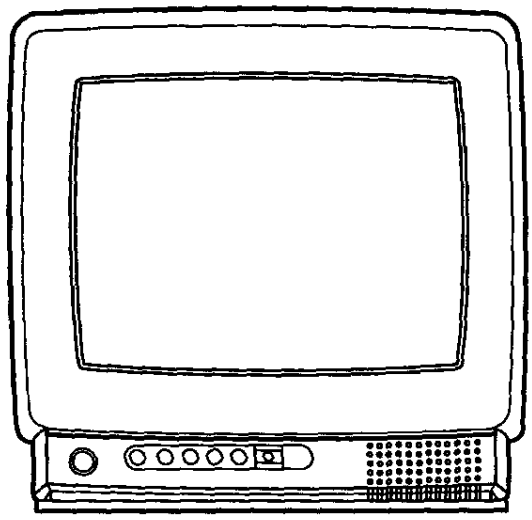
Model # CT-9R10T

Color Television
Operating Instructions

Panasonic®



Read these instructions completely before operating this set.
Contents subject to change without notice or obligation.

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Safety Instructions

WARNING

RISK OF ELECTRIC SHOCK DO NOT OPEN

WARNING: To reduce the risk of electric shock do not remove cover or back. No user–serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrow–head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

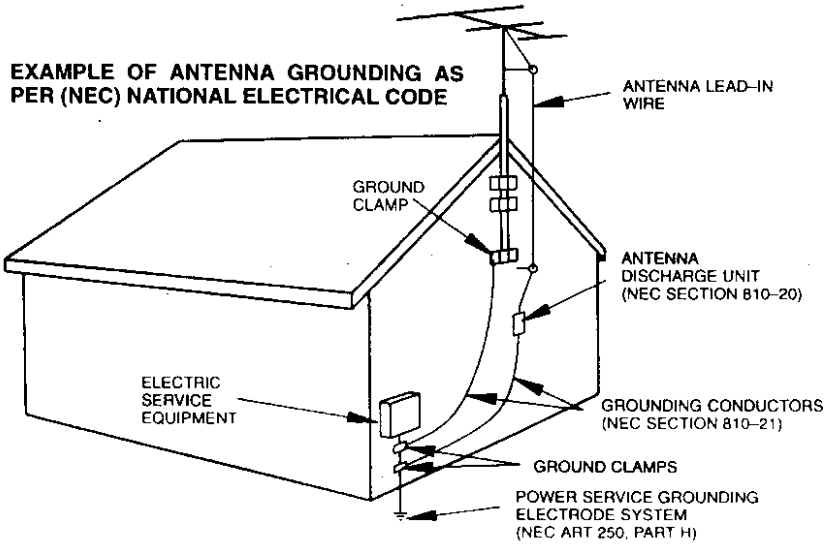
Note To CATV System Installer: This reminder is provided to call the CATV system installer's attention to Article 820–40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Safety Instructions For Television Receivers

1. Read and apply the operating instructions provided with your television receiver.
2. Read all of the instructions given here and retain them for later use.
3. Unplug this television receiver from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use attachments not recommended by the television receiver manufacturer as they may cause hazards.
5. Do not use this television receiver near water. For example: Avoid placing it near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
6. Do not place this television receiver on an unstable cart, stand, or table. The television receiver may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television receiver. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

7. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the television receiver and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the television receiver on a bed, sofa, rug or other similar surface. This television receiver should never be placed near or over a radiator or heat register. This television receiver should not be placed in a built–in installation such as a bookcase unless proper ventilation is provided.
8. Operate only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home consult your television dealer or local power company. For television receivers designed to operate from battery power, refer to the operating instructions.
9. This television receiver is equipped with a polarized alternating–current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
10. Do not allow anything to rest on the power cord. Do not locate this television receiver where the cord will be abused by persons walking on it.
11. Follow all warnings and instructions marked on the television receiver.
12. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
13. Never push objects of any kind into this television receiver through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television receiver.


EXAMPLE OF ANTENNA GROUNDING AS PER (NEC) NATIONAL ELECTRICAL CODE
ANTENNA LEAD–IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810–20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810–21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

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14. If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. In the U.S. Section 810 of the National Electrical Code and in Canada Part 1 of the Canadian Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead–in wire to an antenna discharge unit, size of grounding conductors, location of antenna–discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.
15. For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power–line surges.
16. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
17. Unplug this television receiver from the wall outlet, and refer servicing to qualified service personnel under the following conditions:
    a. When the power cord or plug is damaged or frayed.
    b. If liquid has been spilled into the television receiver.
    c. If the television receiver has been exposed to rain or water.
    d. If the television receiver does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television receiver to normal operation.
    e. If the television receiver has been dropped or the cabinet has been damaged.
    f. When the television receiver exhibits a distinct change in performance – this indicates a need for service.
18. Do not attempt to service this television receiver yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
19. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
20. Upon completion of any service or repairs to this television receiver, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.
21. **WARNING: To prevent fire or shock hazard, do not expose this appliance to rain or moisture.**
22. **CAUTION:** TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

NOTE: This equipment is designed to operate in the U.S.A., Canada and other countries where the broadcasting system and AC house current is exactly the same as in the U.S.A. and Canada.

Important Information Regarding Use of Video Games, Computers, Teletext or Other Fixed Image Displays.

The extended use of fixed image program material can cause a permanent "shadow image" on the picture tube. This background image is viewable on normal programs in the form of a stationary fixed image. This type of irreversible picture tube deterioration can be limited by observing the following steps:

A. Reduce the brightness/contrast setting to a minimum viewing level.
B. Do not display the fixed image for extended periods of time.
C. Turn the power off when not in actual use.

NOTE: The marking or retained image on the picture tube resulting from fixed image use is not an operating defect and as such is not covered by Warranty. This product is not designed to display fixed image patterns for extended periods of time.

Specifications

Power Source: 120V 60Hz, AC

Channel Capability: 181 channels (See chart)
VHF 2~13, UHF 14~69, Cable 125 channels

Specifications are subject to change without notice or obligation.

Channel Capability Chart

BAND	USA/CAN
VHF	12
UHF	56
CABLE (Mid–Band)	15
CABLE (Super Band)	14
CABLE (Hyper Band)	28
CABLE (Ultra Band)	56
TOTAL CHANNELS	**181**

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Introduction

Congratulations on Your New Purchase

Your new video component features an all solid state chassis which is designed to give you many years of enjoyment. It was thoroughly tested and adjusted at the factory for best performance.

In order for you to take full advantage of your new video component, please read and follow the installation and operating instructions supplied with this product.

Customer's Record

The model and serial number of this product may be found on its back cover. You should note the model and serial number in the space provided and retain this book as a permanent record of your purchase to aid in identification in the event of theft or loss.

Model Number: _____ Serial Number: _____

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Care and Cleaning

Picture Tube (Turn set off)

Use a mild soap solution or window cleaner and a clean cloth. DO NOT USE ABRASIVE CLEANERS. Avoid excessive moisture and wipe dry.

Plastic Cabinets

Wipe the cabinet with a soft cloth dampened with water or a mild detergent solution and wipe dry with a soft clean cloth. Avoid excessive moisture. Do not use benzene, thinners or other petroleum based cleaners.

Wood Cabinets

When dusting or polishing the cabinet, use a clean soft cloth and stroke straight with the grain. An occasional coat of furniture polish will help preserve the finish. Do not use benzene, thinners or other petroleum based cleaners. Do not place objects made of plastic or rubber directly on top of the cabinet. A chemical reaction could result causing permanent marring of the finish.

Remote Control Transmitter

Do not use benzene, thinners or other petroleum based cleaners to clean the Remote Control Transmitter. To clean, wipe with a soft cloth slightly moistened with a mild detergent and then wipe dry with a soft clean cloth.

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Installation

Receiver Location

Locate for comfortable viewing. Avoid placing where sunlight or other bright light (including reflections) will fall on the screen.

Use of some types of fluorescent lighting can reduce remote control transmitter range.

Adequate ventilation is essential to prevent internal component failure. Keep away from areas of excessive heat or moisture.

To insure optimum color purity do not position magnetic equipment (motors, fans, other speakers, etc.) nearby.

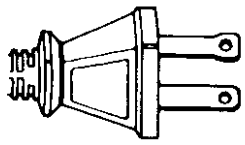
Optional External Equipment Connections

The Video/Audio connections between components can be made with shielded video and audio cables. For best performance, video cables should utilize 75 ohm coaxial shielded wire. Cables are available from your dealer or electronic supply house.

Before you purchase any cables, be sure you know what type of output and input connectors your various components require. Also determine the length of cable you'll need.

AC Power Supply Cord

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT OF AC OUTLET AND FULLY INSERT. DO NOT USE THIS (POLARIZED) PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADE CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.



Polarized Plug

Remote Control Battery Installation & Replacement

Battery Installation

Batteries: Use two "AA" batteries.

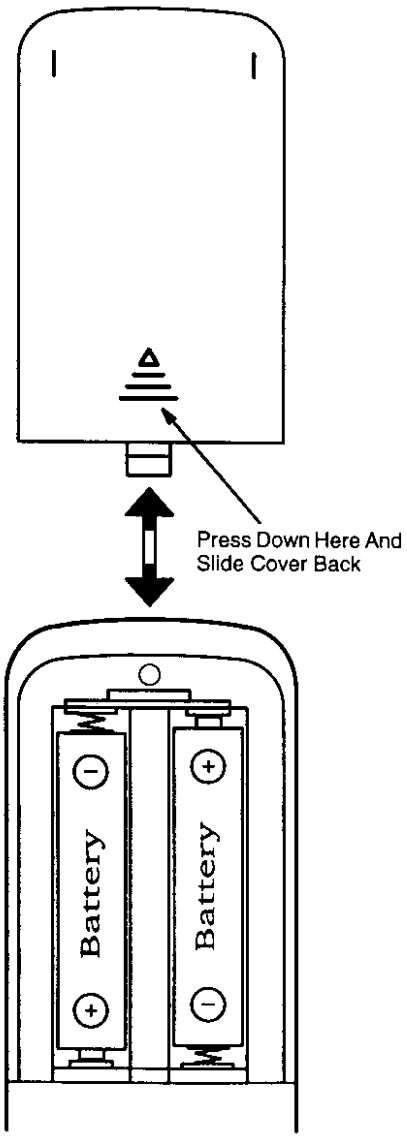
1. Turn the Transmitter face down. To remove bottom cover, press down on marking and slide cover off in the direction indicated.
2. Install the batteries as shown in the battery compartment. (Polarity (+) or (–) must be correct.)
3. Replace the cover and slide in reverse until the lock snaps.

Precaution on Battery Use

Incorrect installation can cause battery leakage and corrosion that will damage the Remote Control Transmitter.

Observe the Following Precautions:

1. Batteries must be replaced as a pair.
2. Do not combine a used battery with a new one.
3. Do not mix battery types (Example: "Zinc Carbon" with "Alkaline").
4. Do not attempt to charge, short–circuit, disassemble, heat, or burn used batteries.
5. Battery replacement is necessary when Remote Control reacts sporadically or stops operating the Receiver.



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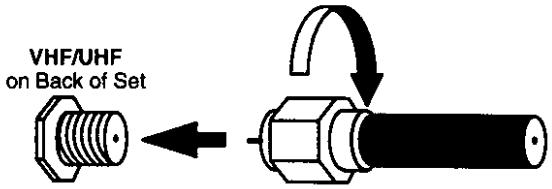
Antenna/Cable Connections

Antenna Connection – For proper reception of VHF/UHF channels an external antenna is required. For best reception an outdoor antenna is recommended. Antenna Mode must be set to TV. (Refer to Antenna Mode section.)

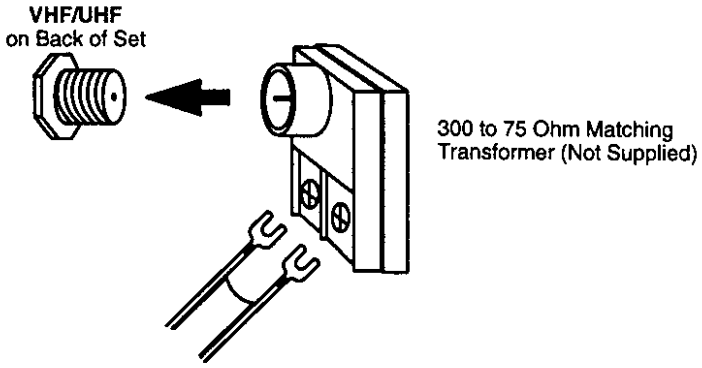
Cable Connection – For reception of cable channels (01~125) connect the cable supplied by your local cable company. Antenna Mode must be set to CABLE. (Refer to Antenna Mode section.)

NOTE: Certain cable systems offset some channels to reduce interference or have Premium (scrambled) channels. A cable converter box is required for proper reception. Check with your local Cable company for its compatibility requirements.

Incoming 75 Ohm Cable From Home Antenna Or Cable Company

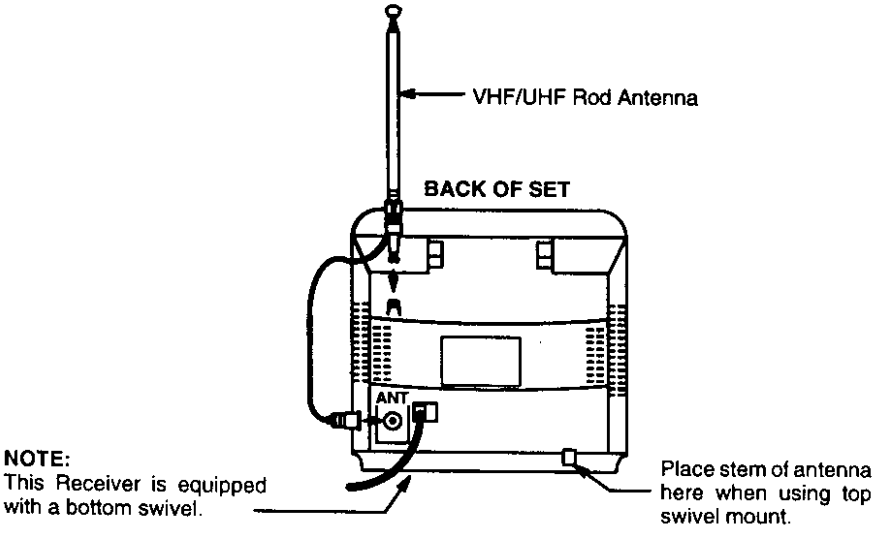


Incoming 300 Ohm Twin Lead Cable From Home Antenna



How to Install VHF/UHF Rod Antenna

A VHF/UHF rod antenna is supplied.
Push the stem of the VHF/UHF antenna into the antenna hole on the cabinet back as shown.
Extend the antenna and adjust its length, direction and angle for the clearest picture.



Other Video Equipment

VCRs, Video Disc Players, Computers, TV games and Teletext equipment can also be connected to the antenna input connection.

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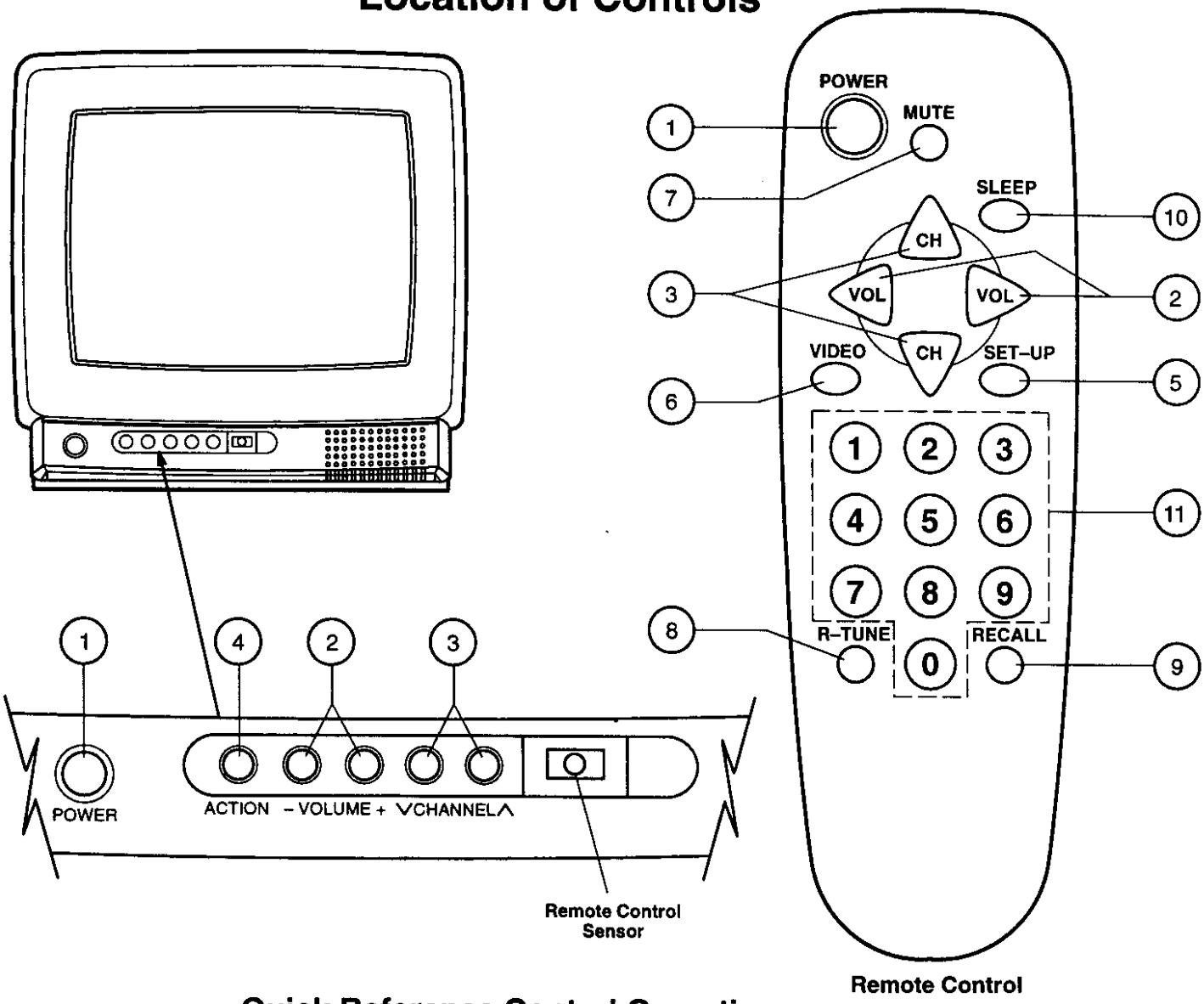
Location of Controls



Quick Reference Control Operation

(1) **Power Button –** Press to turn ON or OFF. (pg. 8)

(2) **Volume Buttons** – Press to adjust Sound Level. Press to adjust or activate Video and Set–Up Menus when displayed. (pg. 8)

(3) **Channel Buttons** – Press to select programmed channels. Press to select desired features when menus are displayed. (pg. 8)

(4) **Action Button (On Receiver) –** Press to access both Video and Set–Up Menus. (pg. 12)

(5) **Set–Up Button** – Press to access Set–Up Menu and then press the CH UP or DOWN button to select Auto Programming, Manual Programming, or Antenna. (pg. 11)

(6) **Video Button –** Press to access the Picture Adjustment Menu and then press the CH UP or DOWN button to select Color, Tint, Brightness, Picture, Sharpness or Picture Norm. (pg. 10)

(7) **Mute Button** – Press to mute sound. A second press returns sound to its previous level. (pg. 8)

(8) **R–Tune (Rapid Tune) Button** – Press to switch between two channels. (pg. 9)

(9) **Recall Button –** Press to display status of Sleep Timer and Channel number. (pg. 9)

(10) **Sleep Button** – Press to select automatic Turn OFF in 30, 60 or 90 minutes. (pg. 9)

(11) **Keyboard "0 through 9" Buttons** – Press desired channel number to access any channel. (pg. 8)

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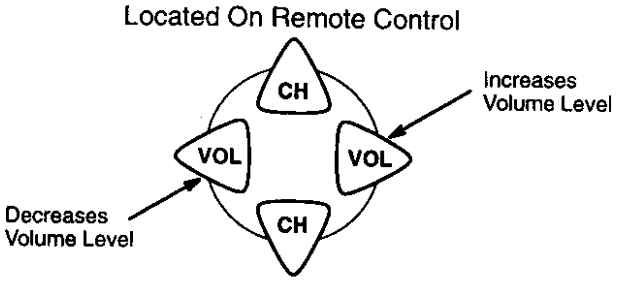
Control Operation

NOTE: This Model is equiped with an on screen Language Menu which has been factory set to English. Follow the instructions on page 12 to change the Language Menu to Spanish and back to English.

Power Button – Press the POWER button to turn ON. Press again to turn OFF.

Volume Buttons – Press the VOLUME (VOL) LEFT or RIGHT button for desired listening level (while On Screen Menus are not displayed). An On–Screen display will indicate volume level.

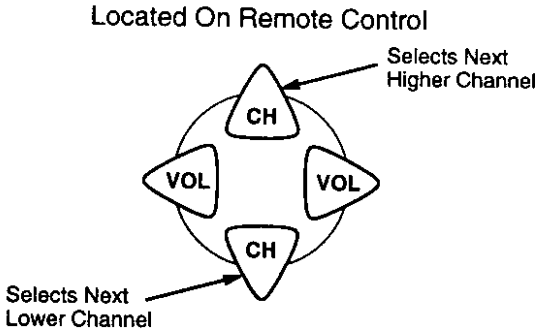


Mute Button – Press the MUTE button to quickly reduce sound level (Mute will appear on screen momentarily). Press again to restore sound.

Channel Change – (Two options)

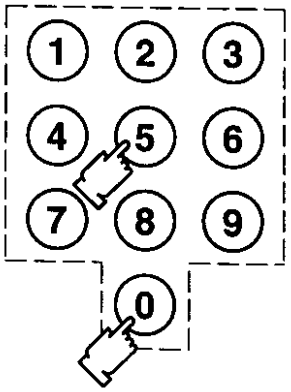
Option 1.

Press the CHANNEL (CH) UP or DOWN button to sequentially scan through programmed channels (while On Screen Menus are not displayed).



Option 2.

Press two digits on keyboard (Example press 0, then 5 for channel 05). For channels over 99, press three digits on keyboard.



NOTE: When using keyboard entry for channels 10, 11 and 12 in the CABLE mode there is a slight delay before channel change because of the capability of tuning cable channels 100 to 125.

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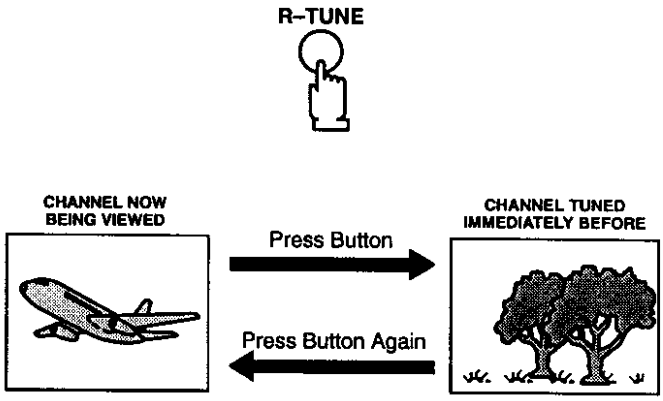
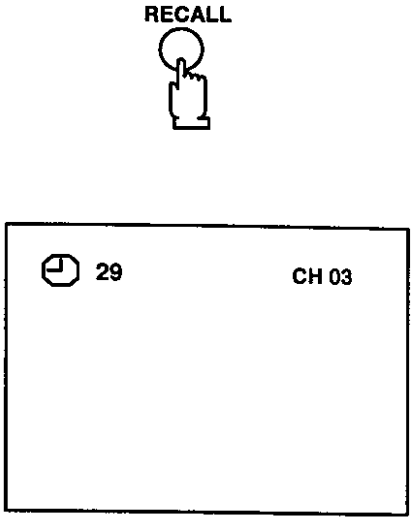
R–Tune (Rapid Tune) Button – Press the R–TUNE (RAPID TUNE) button to instantly switch between the last two channels selected (without any On Screen display being activated).

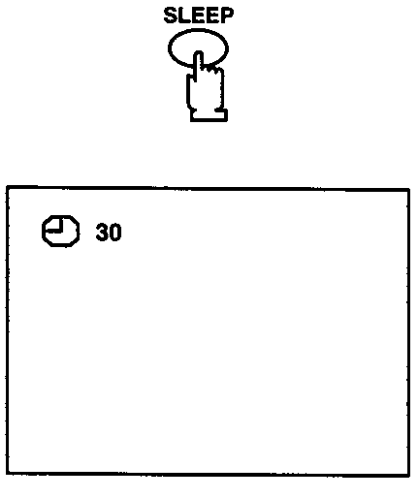


Recall Button – Press the RECALL button to review:

- CH number selected
- Sleep Timer Status



Sleep Button – Press the SLEEP button repeatedly for automatic turn "OFF" in 30, 60 or 90 minutes as desired.



Note: Display will flash 3, 2 and 1 to indicate the last three remaining minutes prior to automatic turn "OFF". To deactivate, press the SLEEP button continuously until the display reads "0".

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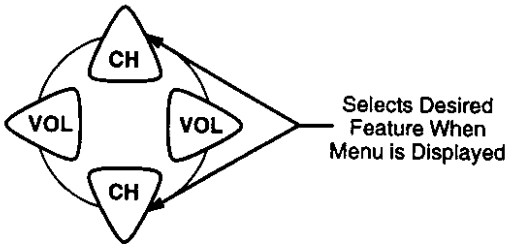
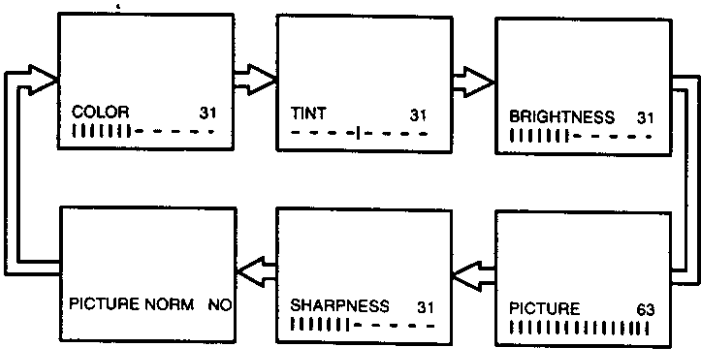
Video Button

- COLOR – adjust for desired color intensity.
- TINT – adjust for natural flesh tones.
- BRIGHTNESS – adjust so dark areas of picture just become black for a crisp detail.
- PICTURE – adjust so the white areas of the picture are to your liking.
- SHARPNESS – adjust for best clarity of outline detail.
- PICTURE NORM – resets to a factory preset level.

1. Press the VIDEO button to access into the Picture Adjustment Menu.

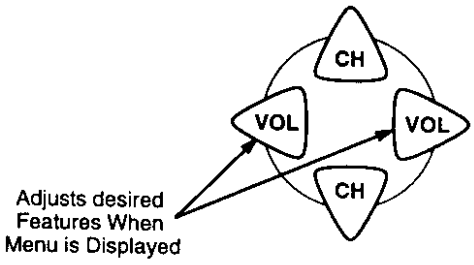
2. Press the CH UP or DOWN button to select the desired Picture Adjustment: Color, Tint, Brightness, Picture or Sharpness.





Note: This detail shows the sequence for CH DOWN button. CH UP button will sequence in the opposite direction.

3. Press the VOL LEFT or RIGHT button to adjust your selection.



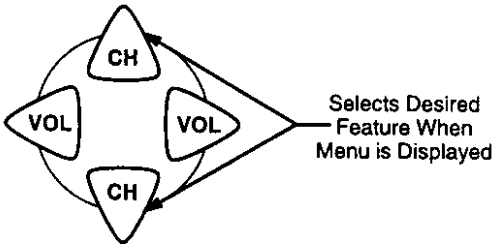
4. Repeat steps 2 and 3 for the remaining Picture Adjustments.
5. Press the VIDEO button to exit the Picture Adjustment Menu.

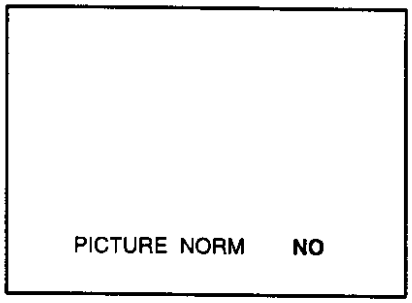
Picture Norm

Pressing the VOL LEFT or RIGHT button while Picture Norm is selected will reset the Picture Adjustments back to a factory preset level.

1. Press the VIDEO button to access into the Picture Adjustment Menu.

2. Press the CH UP or DOWN button to select Picture Norm Menu.





3. Press the VOL LEFT or RIGHT button to select "SET" to normalize Color, Tint, Brightness, Picture and Sharpness.
4. Press the VIDEO button to exit the Picture Norm Menu.

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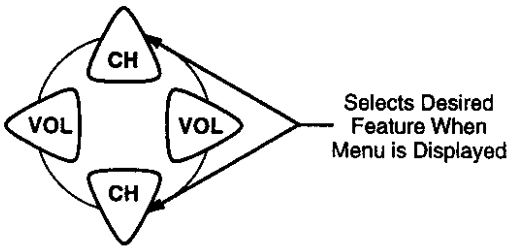
Set–Up Button

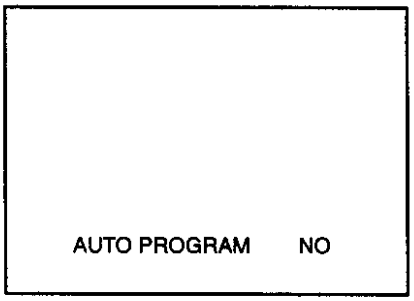
- AUTO PROGRAM
- MANUAL PROGRAM
- ANTENNA (TV or CABLE)
- LANGUAGE (ENGLISH or ESPAÑOL)

Auto Channel Programming – This feature allows you to place all channels with a Video signal into Channel Scan Memory (all channels with a signal will be indicated in Blue). Press CH UP or DOWN button (while On–Screen Menus are not displayed) and only those channels with a signal will be accessed.

1. Press the SET–UP button to access into the Set–Up Menu.

2. Press the CH UP or DOWN button to select the Auto Program Menu.





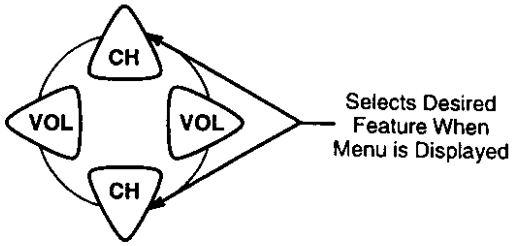
3. Press the VOL LEFT or RIGHT button to start AUTO PROGRAMMING, Channels will automatically advance until all channels have been scanned.

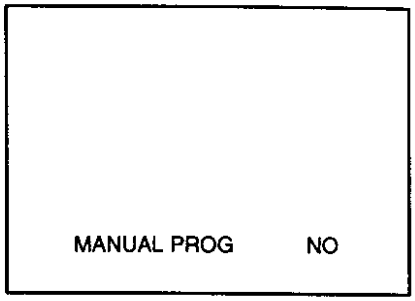
NOTE: To defeat once started, press any other button and the feature stops with all previous channels programmed into Channel Memory.

Manual Program – This feature allows you to select which channels are placed into Channel Scan Memory.

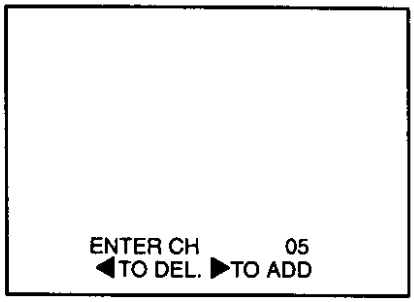
1. Press the SET–UP button to access into the Set–Up Menu.

2. Press the CH UP or DOWN button to select the Manual Prog (Manual Programming) Menu.

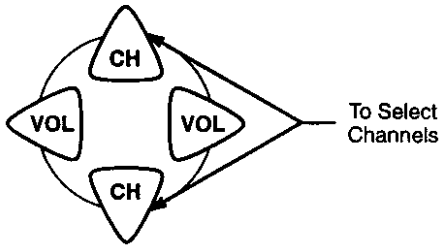




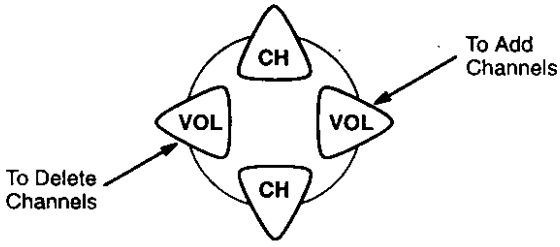
3. Press the VOL LEFT or RIGHT button to display Manual Programming Sub Menu.



4. Press the CH UP or DOWN button or use the Remote Control Keyboard "0" through "9" buttons to select channels while the Sub Menu is displayed.



5. Press the VOL LEFT to delete channel(s) from memory (Yellow). Press the VOL RIGHT to add channel(s) to memory (Blue).



6. Repeat steps 4 and 5 to continue adding and deleting channels.
7. Press the SET–UP button to exit the Manual Programming Sub Menu.

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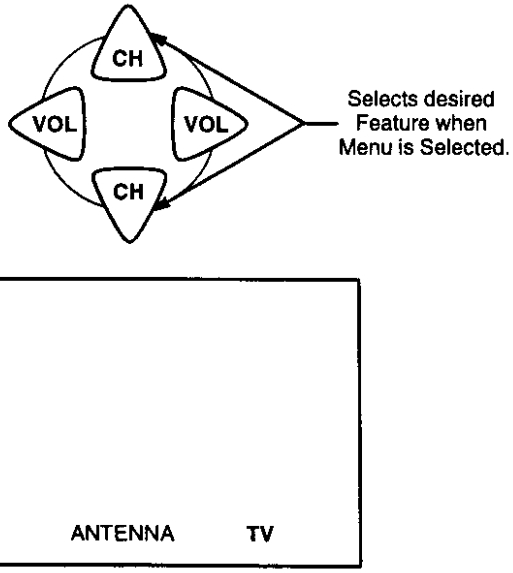
Antenna Mode

(TV or Cable Tuning Mode) – This feature allows the viewer to choose the proper tuning system for the type of signal at the Antenna Input.

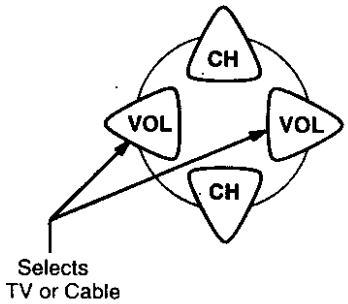
- TV Mode is used when the Receiver is not connect to a cable TV system, for example when using a VHF/ UHF antenna (02–69).
- Cable mode is used when the Receiver is connected to a Cable TV system and you are not using a Cable company converter box (Channel 01–125)

1. Press the SET–UP button to access into the Set–Up Menu.

2. Press the CH UP or DOWN button to select the Antenna Menu.



3. Press the VOL LEFT or RIGHT button to select TV or CABLE.



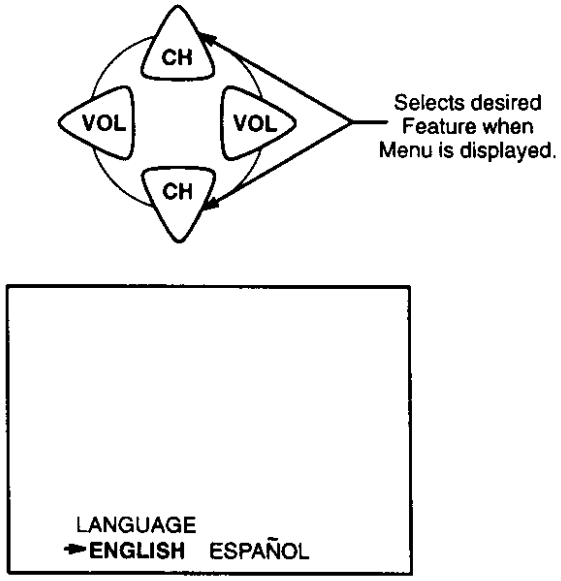
4. Press the SET–UP button to exit the Antenna Menu.

Language Menu Selection (English or Spanish)

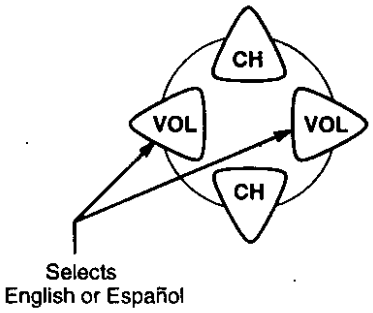
The Language Menu is factory set to English. Follow these instructions to change the Language Menu to Spanish and back to English.

1. Press the SET–UP button to access into the Set–Up Menu.

2. Press the CH UP or DOWN button to select the Language Menu.



3. Press the VOL LEFT or RIGHT button to highlight ENGLISH or ESPAÑOL. The arrow will indicate the selected language.



4. Press the Set–Up button to exit the Language Menu.

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Action Button (on Receiver)

The Action button (on Receiver) will allow you to access all Video and Set–Up Menus.

1. Press the ACTION button (on Receiver) to access into the Video and Set–Up Menu.

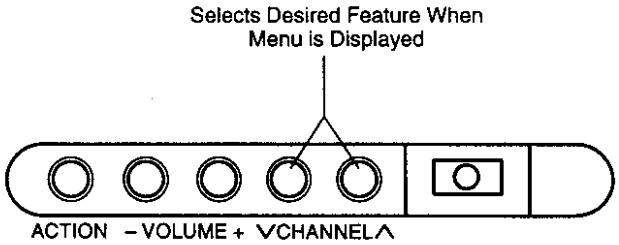
2. Press the CH UP or DOWN button (on Receiver) to select one of the following features.

The Set–Up Menus:

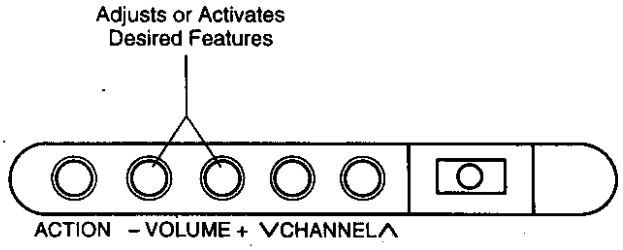
- Auto Program
- Manual Program
- Antenna
- Language

The Video Menus:

- Color
- Tint
- Brightness
- Picture
- Sharpness
- Picture Norm



3. Press the VOL LEFT or RIGHT button (on Receiver) to adjust or activate your desired features.



4. Press the Action button (on Receiver) to exit either Set–Up or Video Menus.

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Notes:

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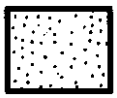
Troubleshooting Chart

Before you call for service, determine the symptoms and make a few simple checks shown below.

Symptoms		Check
Picture	**Sound**	
SNOWY PICTURE	NOISY SOUND	– ANTENNA LOCATION AND/OR CONNECTION
MULTIPLE IMAGE	NORMAL SOUND	– ANTENNA DIRECTION AND/OR LOCATION – ANTENNA LEAD–IN WIRE
INTERFERENCE	NOISY SOUND	– ELECTRICAL APPLIANCES, LIGHTS, CARS AND TRUCKS – DIATHERMY AND OTHER MEDICAL EQUIPMENT
NORMAL PICTURE	NO SOUND	– VOLUME CONTROL SETTING – MUTE CONTROL (IF APPLICABLE) – TRY ANOTHER CHANNEL – TV SPEAKERS (IF APPLICABLE) IN THE OFF MODE
 NO VIDEO	NOISY SOUND	– TV OR CABLE TUNING MODE SET TO PROPER SETTING – ANTENNA INPUT CORRECT (IF APPLICABLE)
NO PICTURE	NO SOUND	– CHECK THAT AC POWER LINE IS PLUGGED INTO AC OUTLET – BRIGHTNESS & AUDIO CONTROLS SET PROPERLY – TRY ANOTHER CHANNEL
NO COLOR	NORMAL SOUND	– COLOR CONTROL SETTINGS – TRY ANOTHER CHANNEL
BLUE PICTURE	NO SOUND	– RECEIVER IN VIDEO MODE WITH NO SIGNAL (IF APPLICABLE)

Should this unit turn ON momentarily and then turn OFF, or fail to operate, unplug the AC cord and contact your Authorized Servicer for repairs.

Power Loss

Prolonged power interruption causes the following features to reset to their factory preset state.

FEATURE	FACTORY PRESET STATE	FEATURE	FACTORY PRESET STATE
POWER	OFF	SLEEP TIMER	OFF

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Matsushita Consumer Electronics Company, Division of Matsushita Electric Corporation of America
One Panasonic Way
Secaucus, New Jersey 07094

Matsushita Electric of Canada Limited
5770 Ambler Drive
Mississauga, Ontario L4W 2T3
Canada

Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico Inc. ("PSC")
Ave. 65 de Infanteria, Km 9.5
San Gabriel Industrial Park
Carolina, Puerto Rico 00985
Tel. (809) 750–4300
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